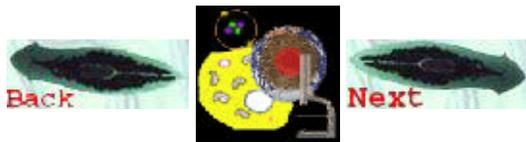


Matter
Earth
Cells
Heredity
Classify

ORGANELLE	LOCATION	DESCRIPTION	FUNCTION
cell wall	plant, not animal	*outer layer *rigid, strong, stiff *made of cellulose	*support (grow tall) *protection *allows H ₂ O, O ₂ , CO ₂ to pass into and out of cell
cell membrane	both plant/animal	*plant - inside cell wall *animal - outer layer; cholesterol *selectively permeable	*support *protection *controls movement of materials in/out of cell *barrier between cell and its environment *maintains homeostasis
nucleus	both plant/animal	*large, oval	*controls cell activities
nuclear membrane	both plant/animal	*surrounds nucleus *selectively permeable	*Controls movement of materials in/out of nucleus
cytoplasm	both plant/animal	*clear, thick, jellylike material and organelles found inside cell membrane	*supports /protects cell organelles
endoplasmic reticulum (E.R.)	both plant/animal	*network of tubes or membranes	*carries materials through cell
ribosome	both plant/animal	*small bodies free or attached to E.R.	*produces proteins
mitochondrion	both plant/animal	*bean-shaped with inner membranes	*breaks down sugar molecules into energy
vacuole	plant - few/large animal - small	*fluid-filled sacs	*store food, water, waste (plants need to store large amounts of food)
lysosome	plant - uncommon animal - common	*small, round, with a membrane	*breaks down larger food molecules into smaller molecules *digests old cell parts
chloroplast	plant, not animal	*green, oval usually containing chlorophyll (green pigment)	*uses energy from sun to make food for the plant (photosynthesis)



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